

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: August 1, 2002, 09:29:47 ; Search time 2881.61 seconds
(without alignments)
130.718 Million cell updates/sec

Title: US-10-014-743-2

Perfect score: 18
Sequence: 1 TGTAAACGACGCCAGT 18

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1797656 seqs, 10463268293 residues

Total number of hits satisfying chosen parameters: 3595312

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : GenEmbl.*

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5: gb_ov.*

6: gb_pat.*

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30: em_htg_hum.*

31: em_htg_inv.*

32: em_htg_other.*

33: em_htg_inv.*

pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Score	Match Length	ID	Description
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1	18	100.0	18	6	A49774	A49774	Sequence 5 from Patent WO9609395.	18 bp	DNA	linear	PAT 07-MAR-1997
2	18	100.0	18	6	AR007529	AR007529	Sequence 5 from Patent WO9609395.	18 bp	DNA	linear	PAT 07-MAR-1997
3	18	100.0	18	6	AR012189	AR012189	Sequence 5 from Patent WO9609395.	18 bp	DNA	linear	PAT 07-MAR-1997
4	18	100.0	18	6	AR016075	AR016075	Sequence 5 from Patent WO9609395.	18 bp	DNA	linear	PAT 07-MAR-1997
5	18	100.0	18	6	AR022604	AR022604	Sequence 5 from Patent WO9609395.	18 bp	DNA	linear	PAT 07-MAR-1997
6	18	100.0	18	6	AR023877	AR023877	Sequence 5 from Patent WO9609395.	18 bp	DNA	linear	PAT 07-MAR-1997
7	18	100.0	18	6	AR024485	AR024485	Sequence 5 from Patent WO9609395.	18 bp	DNA	linear	PAT 07-MAR-1997
8	18	100.0	18	6	AR030639	AR030639	Sequence 5 from Patent WO9609395.	18 bp	DNA	linear	PAT 07-MAR-1997
9	18	100.0	18	6	AR030808	AR030808	Sequence 5 from Patent WO9609395.	18 bp	DNA	linear	PAT 07-MAR-1997
10	18	100.0	18	6	AR036904	AR036904	Sequence 5 from Patent WO9609395.	18 bp	DNA	linear	PAT 07-MAR-1997
11	18	100.0	18	6	AR038851	AR038851	Sequence 5 from Patent WO9609395.	18 bp	DNA	linear	PAT 07-MAR-1997
12	18	100.0	18	6	AR044721	AR044721	Sequence 5 from Patent WO9609395.	18 bp	DNA	linear	PAT 07-MAR-1997
13	18	100.0	18	6	AR052368	AR052368	Sequence 5 from Patent WO9609395.	18 bp	DNA	linear	PAT 07-MAR-1997
14	18	100.0	18	6	AR055166	AR055166	Sequence 5 from Patent WO9609395.	18 bp	DNA	linear	PAT 07-MAR-1997
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30	18	100.0	18	6	AR141143	AR141143	Sequence 5 from Patent WO9609395.	18 bp	DNA	linear	PAT 07-MAR-1997
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32	18	100.0	18	6	AR150714	AR150714	Sequence 5 from Patent WO9609395.	18 bp	DNA	linear	PAT 07-MAR-1997
33	18	100.0	18	6	AR151387	AR151387	Sequence 5 from Patent WO9609395.	18 bp	DNA	linear	PAT 07-MAR-1997
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ALIGNMENTS

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ACCESSION	A49774	Sequence 5 from Patent WO9609395.	18 bp	DNA	linear	PAT 07-MAR-1997	
VERSION	A49774.1	GI:2303068					
KEYWORDS		unidentified.					
SOURCE		unidentified.					
ORGANISM		unclassified.					
REFERENCE		1 (bases 1 to 18)					
AUTHORS		Meyer, T.F., Pohlner, J., Beck, S.C., Jose, J., Woeik, U., Lorenzen, D.R.					
TITLE		and Oetzberger, K.B.					
JOURNAL		DRUG FOR THE PREVENTION AND TREATMENT OF AUTO-IMMUNE AND VIRAL					
COMMENT		DISEASES, AND DIAGNOSTIC AGENTS FOR DETECTING SAID DISEASES					
FEATURES		Patent: WO 9609395-A 5 28-MAR-1996;					
		MAX PLANCK GESELLSCHAFT (DE)					
		Other publication AU 3651595 960409.					
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		/db_xref="taxon:32644"					
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Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGTAAACGACGGCCAGT 18
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Db 1 TGTAAACGACGGCCAGT 18

RESULT 2

LOCUS AR007529 18 bp DNA linear PAT 04-DEC-1998
DEFINITION Sequence 2 from patent US 5750868.
ACCESSION AR007529
VERSION AR007529.1 GI:3967013
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 18)
AUTHORS Cigan, A.M. and Albertsen, M.C.
TITLE Reversible nuclear genetic system for male sterility in transgenic plants

JOURNAL Patent: US 5750868-A 2 12-MAY-1998;
FEATURES Location/Qualifiers
source 1..18
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Best Local Similarity 100.0%; Pred. No. 30;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGTAAACGACGGCCAGT 18
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Db 1 TGTAAACGACGGCCAGT 18

RESULT 3

LOCUS AR012189 18 bp DNA linear PAT 04-DEC-1998
DEFINITION Sequence 2 from patent US 5763243.
ACCESSION AR012189
VERSION AR012189.1 GI:3970179
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 18)
AUTHORS Cigan, A.M. and Albertsen, M.C.
TITLE Reversible nuclear genetic system for male sterility in transgenic plants

JOURNAL Patent: US 5763243-A 2 09-JUN-1998;
FEATURES Location/Qualifiers
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LOCUS AR016075 18 bp DNA linear PAT 05-DEC-1998
DEFINITION Sequence 3 from patent US 5776680.
ACCESSION AR016075
VERSION AR016075.1 GI:3972352
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 18)
AUTHORS Leibowitz, M.J. and Liu, Y.
TITLE Diagnostic probes for pneumocystis carini

JOURNAL Patent: US 5776680-A 3 07-JUL-1998;
FEATURES Location/Qualifiers
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BASE COUNT 6 a 4 c 5 g 3 t
ORIGIN

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Db 1 TGTAAACGACGGCCAGT 18

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LOCUS AR022604 18 bp DNA linear PAT 05-DEC-1998
DEFINITION Sequence 2 from patent US 5792853.
ACCESSION AR022604
VERSION AR022604.1 GI:3976666
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 18)
AUTHORS Cigan, A.M. and Albertsen, M.C.
TITLE Reversible nuclear genetic system for male sterility in transgenic plants

JOURNAL Patent: US 5792853-A 2 11-AUG-1998;
FEATURES Location/Qualifiers
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LOCUS AR023877 18 bp DNA linear PAT 05-DEC-1998
DEFINITION Sequence 2 from patent US 5795753.
ACCESSION AR023877
VERSION AR023877.1 GI:3977171
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 18)

ATTHORS Cigan,A.M. and Albertsen,M.C.
TITLE Reversible nuclear genetic system for male sterility in transgenic plants
JOURNAL Patent: US 5795753-A 2 18-AUG-1998;
FEATURES Location/Qualifiers
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BASE COUNT 6 a 4 c 5 g 3 t
ORIGIN

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Db 1 TGTAAACGACGCGCCAGT 18

RESULT 7
LOCUS AR024485 18 bp DNA linear PAT 05-DEC-1998
DEFINITION Sequence 26 from patent US 5795976.
ACCESSION AR024485
VERSION AR024485.1 GI:3977779
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Oefner,P.Josef. and Underhill,P.Anton.
TITLE Detection of nucleic acid heteroduplex molecules by denaturing high-performance liquid chromatography and methods for comparative sequencing
JOURNAL Patent: US 5795976-A 26 18-AUG-1998;
FEATURES Location/Qualifiers
source 1..18
BASE COUNT 6 a 4 c 5 g 3 t
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Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 8
LOCUS AR030639 18 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 1 from patent US 5861287.
ACCESSION AR030639
VERSION AR030639.1 GI:5943853
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Metzker,M.L. and Gibbs,R.A.
TITLE Alternative dye-labeled primers for automated DNA sequencing
JOURNAL Patent: US 5861287-A 1 19-JAN-1999;
FEATURES Location/Qualifiers
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BASE COUNT 6 a 4 c 5 g 3 t
ORIGIN

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Best Local Similarity 100.0%; Pred. No. 30;
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QY 1 TGTAAACGACGCGCCAGT 18
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Db 1 TGTAAACGACGCGCCAGT 18

RESULT 9
LOCUS AR030808 18 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 11 from patent US 5861378.
ACCESSION AR030808
VERSION AR030808.1 GI:5944022
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Iwanaga,S., Kawabata,S.-i. and Saito,T.
TITLE Horseshoe crab hemocyte polypeptides, and preparation and DNA encoding thereof
JOURNAL Patent: US 5861378-A 11 19-JAN-1999;
FEATURES Location/Qualifiers
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BASE COUNT 6 a 4 c 5 g 3 t
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Best Local Similarity 100.0%; Pred. No. 30;
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Db 1 TGTAAACGACGCGCCAGT 18

RESULT 10
LOCUS AR036904 18 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 2 from patent US 5800996.
ACCESSION AR036904
VERSION AR036904.1 GI:5954760
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Lee,L.G., Spurgeon,S.L. and Rosenblum,B.
TITLE Energy transfer dyes with enhanced fluorescence
JOURNAL Patent: US 5800996-A 2 01-SEP-1998;
FEATURES Location/Qualifiers
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Best Local Similarity 100.0%; Pred. No. 30;
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Db 1 TGTAAACGACGCGCCAGT 18

RESULT 11
LOCUS AR038851 18 bp DNA linear PAT 29-SEP-1999

SEQUENCE LISTING

REFERENCE 1 (bases 1 to 18)

AUTHORS Gallatin, Michael, and Van der Vieren, M.

TITLE Human beta.2 integrin .alpha. subunit

JOURNAL Patent: US 5831029-A 40 03-NOV-1998;

UNKNOWN: UNKNOWN:

UNCLASSIFIED.

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us-10-014-743-2.rge

Thu Aug 1 12:08:43 2002

Db 1 TGTAAACGACGCCAGT 18

Search completed: August 1, 2002, 09:29:50
Job time: 6596 sec

Thu Aug 1 12:08:43 2002

GenCore version 4.5
Copyright (c) 1993 - 2000 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 1, 2002, 09:37:26 ; Search time 365.16 Seconds
(without alignments)
84.633 Million cell updates/sec

Title: US-10-014-743-2

Perfect score: 18

Sequence: 1 TGTAAACGAGCCAGT 18

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1736436 seqs, 858457221 residues

Total number of hits satisfying chosen parameters: 3472872

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	18	100.0	18	AAQ39606	Fluorescence detec
2	18	100.0	18	AAQ39606	Fungus-derived 18S
3	18	100.0	18	AAQ39606	hMLH1 gene exon 16
4	18	100.0	18	AAQ39606	ML3 primer. Synth
5	18	100.0	18	AAQ39606	Primer RO-4 for be
6	18	100.0	18	AAQ39606	Primer for amplify
7	18	100.0	18	AAQ39606	Defensin coding se
8	18	100.0	18	AAQ39606	5'-Terminal amine
9	18	100.0	18	AAQ39606	Tagged ML3 sequenc

10	18	100.0	18	AAQ39606	5'-Terminal amine
11	18	100.0	18	AAQ39606	Primer M13-21 for
12	18	100.0	18	AAQ39606	Primer used in pre
13	18	100.0	18	AAQ39606	Human recombinant
14	18	100.0	18	AAQ39606	Human recombinant
15	18	100.0	18	AAQ39606	Energy transfer fl
16	18	100.0	18	AAQ39606	Human neuroblastom
17	18	100.0	18	AAQ39606	Human K+ channel g
18	18	100.0	18	AAQ39606	Human MY gene dete
19	18	100.0	18	AAQ39606	Human NB Phox dete
20	18	100.0	18	AAQ39606	Human neuro-D gene
21	18	100.0	18	AAQ39606	FER-3 primer for f
22	18	100.0	18	AAQ39606	Hepatitis C virus
23	18	100.0	18	AAQ39606	Mouse alpha-d PCR
24	18	100.0	18	AAQ39606	Human CS198 DNA pr
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26	18	100.0	18	AAQ39606	LU105 EST-specific
27	18	100.0	18	AAQ39606	Primer 21M13, used
28	18	100.0	18	AAQ39606	Mouse beta-integri
29	18	100.0	18	AAQ39606	DNA analysis metho
30	18	100.0	18	AAQ39606	Human PS12 gene p
31	18	100.0	18	AAQ39606	Oligonucleotide us
32	18	100.0	18	AAQ39606	Primer based on FL
33	18	100.0	18	AAQ39606	Mammaglobin univer
34	18	100.0	18	AAQ39606	Forward primer for
35	18	100.0	18	AAQ39606	Human MLH1 gene PC
36	18	100.0	18	AAQ39606	Insecticidal toxin
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44	18	100.0	18	AAQ39606	PCR primer for Hum
45	18	100.0	18	AAQ39606	Human alpha-7 nico

ALIGNMENTS

RESULT 1
AAQ39606
ID AAQ39606 standard; DNA; 18 BP.

AC AAQ39606;

DT 07-OCT-1993 (first entry)

DE Fluorescence detection primer KWL.

DE Polymerase chain reaction; PCR; amplify; primer; fluorescence;
KW detection; label; ss.

OS Synthetic.

PN JP05111399-A.

PD 07-MAY-1993.

PF 22-OCT-1991; 91JP-0274264.

PR 22-OCT-1991; 91JP-0274264.

PA (HITA) HITACHI LTD.

XX WPI; 1993-184819/23.

XX Fluorescence detection for nucleic acid sample - comprises
PT binding labelled oligonucleotide(s) to sample DNA, preparing
PT elongation chain by enzyme reaction, isolating different
PT fragments and detecting fluorescence

PS Disclosure; Page 6; 7pp; Japanese.
 CC The sequences given in AAQ39604-09 are primers which were used in a
 CC detection method to detect nucleic acid molecules. The primers are
 CC fluorescently labelled. They are bound to a target nucleic acid
 CC sample and elongated by PCR. The fluorescence of the amplified
 CC sample is detected. This method can be used for the accurate
 CC detection of nucleic acid sequences.
 XX
 SQ Sequence 18 BP; 6 A; 4 C; 5 G; 3 T; 0 other;
 Query Match 100.0%; Score 18; DB 14; Length 18;
 Best Local Similarity 100.0%; Pred. No. 3.4;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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 Db 1 tgtaaacgacgcccagt 18
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 AAT02863
 ID AAT02863 standard; DNA; 18 BP.
 XX
 AC AAT02863;
 XX
 DT 14-MAR-1996 (first entry)
 XX
 DE Fungus-derived 18S rRNA encoding DNA sequencing primer.
 XX
 KW Polymerase chain reaction; primer; ribosomal RNA; amplification;
 KW sequencing; Matsutake mushroom; ss.
 XX
 OS Agaricus bisporus.
 XX
 PN JP07177889-A.
 XX
 PD 18-JUL-1995.
 XX
 PF 22-DEC-1993; 93JP-0346106.
 XX
 PR 22-DEC-1993; 93JP-0346106.
 XX
 PA (RIKA) RIKAGAKU KENKYUSHO.
 XX
 DR WPI; 1995-279918/37.
 XX
 PT Oligo:nucleotide primer comprising amplification and sequencing
 PT portions - useful for determination of fungal DNA sequences by PCR
 PT amplification
 PS Claim 2; Page 2; 8pp; Japanese.
 XX
 CC AAT02855-T02860 are amplification primers for DNA coding for
 CC fungus-derived 18S rRNA. These primers may be bound at the 5' end
 CC to the 3' end of a sequencing primer (AAT02861-T02863). The
 CC resulting oligonucleotide primers comprising amplification and
 CC sequencing portions (AAT02864-T02869). These primers are useful for
 CC the determination of the base sequences of fungi.
 XX
 SQ Sequence 18 BP; 6 A; 4 C; 5 G; 3 T; 0 other;
 Query Match 100.0%; Score 18; DB 16; Length 18;
 Best Local Similarity 100.0%; Pred. No. 3.4;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TGTAAACGACGCGCCAGT 18
 Db 1 tgtaaacgacgcccagt 18
 ||||||||||||||||

RESULT 3
 AAQ09024
 ID AAQ09024 standard; DNA; 18 BP.
 XX
 AC AAQ09024;
 XX
 DT 05-MAR-1996 (first entry)
 XX
 DE hMLH1 gene exon 16 second stage amplification primer N-19269.
 XX
 KW hMLH1; MutL homologue; cancer diagnosis; mismatch repair; tumour;
 KW susceptibility; mutation detection; exon 16; primer N-19269;
 KW second stage amplification; ss.
 XX
 OS Synthetic.
 XX
 PN WO9516793-A1.
 XX
 PD 22-JUN-1995.
 XX
 PF 16-DEC-1994; 94WO-US14746.
 XX
 PR 09-DEC-1994; 94US-0352902.
 PR 17-DEC-1993; 93US-0168877.
 PR 08-MAR-1994; 94US-0209521.
 XX
 PA (DAND) DANA FARBER CANCER INST INC.
 PA (UYOR-) UNIV OREGON HEALTH SCI.
 XX
 PI Baker SM, Bollag RJ, Bronner CE, Kolodner RD, Liskay RM;
 XX WPI; 1995-231583/30.
 DR
 XX
 PT Determn. of a mutation in a mutL homologue or gene prod. in a tissue
 PT - used to diagnose cancer susceptibility, and to identify and
 PT classify a DNA mismatch-repair-defective tumour
 XX
 PS Disclosure; Fig 4B-4; 168pp; English.
 XX
 CC AAQ09024 and AAQ09025 are a primer pair for the 2nd stage amplification
 CC of the hMLH1 (a MutL homologue) gene exon 16. A mutation in an
 CC analogous segment of a hMLH1 or hPMS1 nucleic acid isolated from a
 CC subject, can be detected by comparing it with the above gene
 CC fragment. This method can be used to diagnose cancer susceptibility,
 CC or to identify and classify a DNA mismatch-repair defective tumour.
 XX
 SQ Sequence 18 BP; 6 A; 4 C; 5 G; 3 T; 0 other;
 Query Match 100.0%; Score 18; DB 16; Length 18;
 Best Local Similarity 100.0%; Pred. No. 3.4;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TGTAAACGACGCGCCAGT 18
 Db 1 tgtaaacgacgcccagt 18
 ||||||||||||||||
 RESULT 4
 AAQ091747
 ID AAQ091747 standard; DNA; 18 BP.
 XX
 AC AAQ091747;
 XX
 DT 28-DEC-1995 (first entry)
 XX
 DE M13 primer.
 XX
 KW Beta-2 integrin alpha-d subunit; antiinflammatory; arteriosclerosis;
 KW inflammatory bowel disease; asthma; polymerase chain reaction;
 KW PCR; primer; ss.
 XX
 OS Synthetic.

XX WO9517412-A1.
XX 29-JUN-1995.
XX 21-DEC-1994; 94WO-US14832.
XX 05-AUG-1994; 94US-0286889.
XX 23-DEC-1993; 93US-0173497.
XX (ICOS-) ICOS CORP.
XX Gallatin WM, Van Der Vieren M;
XX WPI; 1995-240603/31.
XX Alpha sub-unit polypeptide of human beta 2 integrin - used to
XX identify potential antiinflammatory agents, for the treatment of
XX graft arteriosclerosis, inflammatory bowel disease, asthma, etc.
XX Example 19; Page 58; 172pp; English.
XX The probe based on human integrin alpha-d clone 19A2 (given in
XX AAQ91712) was used to isolate mouse alpha-d cDNA clones from a thymic
XX oligo dt-primed library in lambda ZAP II. Sequencing of isolated
XX clones was performed using M13 and M13 reverse-1 primers
XX (AAQ91747-48).
XX Sequence 18 BP; 6 A; 4 C; 5 G; 3 T; 0 other;
XX
XX Query Match 100.0%; Score 18; DB 16; Length 18;
XX Best Local Similarity 100.0%; Pred. NO. 3.4;
XX Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1 TGTAAACGACGGCCAGT 18
XX Db 1 TGTAAACGACGGCCAGT 18
XX
XX RESULT 5
XX AAT62669
XX ID AAT62669 standard; DNA; 18 BP.
XX AC AAT62669;
XX XX 21-MAY-1997 (first entry)
XX XX Primer RO-4 for beta-casein cDNA amplification.
XX XX primer; polymerase chain reaction; PCR; plasmid; modified protein;
XX expression; beta-casein; enzyme; kinase; inhibit attachment;
XX Haemophilus influenzae; prevent; treat; otitis media; children; ss.
XX OS Synthetic.
XX XX WO9627018-A1.
XX XX 06-SEP-1996.
XX XX 27-FEB-1996; 96WO-US02866.
XX XX 06-NOV-1995; 95US-0554642.
XX XX 27-FEB-1995; 95US-0395239.
XX XX 06-NOV-1995; 95US-0554137.
XX XX (ABBO) ABBOTT LAB.
XX XX Baxter JH, Hansson L, Hards RG, Mukerji P, Thurmond JM;
XX WPI; 1996-412784/41.
XX Plasmid to express modified recombinant proteins, esp. human

PT beta-casein in a bacterial system - encodes an exogenous protein
PT and enzyme which modifies the protein
XX Example 5; Page 28; 58pp; English.
XX To create a single construct designed for secretion of phosphorylated
XX protein to the periplasmic space of a bacterial cell, the beta-casein
XX encoding sequence is put into an expression vector containing a leader
XX sequence that directs protein transport to the periplasm. PCR was
XX performed using the clone resulting from these procedures as the target
XX DNA and primers AAT62669-70. Novel plasmids of the invention comprise a
XX promoter, a sequence encoding an exogenous protein, especially human
XX beta-casein, and a sequence encoding an enzyme which can modify the
XX recombinant beta-casein in a bacterial system). The plasmids are useful
XX to produce a modified recombinant protein in a host cell, mammalian
XX caseins, cell receptor proteins, fatty acylated proteins, mammalian
XX muscle proteins, the gag polyproteins of retroviruses, or mammalian
XX proteins targeted by retroviral src kinases. The method can be used to
XX produce a recombinant human protein useful to inhibit attachment of
XX Haemophilus influenzae to human cells, which can prevent and treat
XX otitis media in children.
XX Sequence 18 BP; 6 A; 4 C; 5 G; 3 T; 0 other;
XX
XX Query Match 100.0%; Score 18; DB 17; Length 18;
XX Best Local Similarity 100.0%; Pred. NO. 3.4;
XX Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX QY 1 TGTAAACGACGGCCAGT 18
XX Db 1 TGTAAACGACGGCCAGT 18
XX
XX RESULT 6
XX AAT35004
XX ID AAT35004 standard; DNA; 18 BP.
XX XX
XX AC AAT35004;
XX XX 28-NOV-1996 (first entry)
XX XX Primer for amplifying 5126f anther specific promoter.
XX XX plant; sterile; sterility; male; reversible; anther; promoter;
XX XX pollen formation; ss.
XX XX Synthetic.
XX XX WO9617945-A1.
XX XX 13-JUN-1996.
XX XX 07-DEC-1995; 95WO-US15229.
XX XX 07-JUN-1995; 95US-0474556.
XX XX 08-DEC-1994; 94US-0351899.
XX XX (PION-) PIONEER HI-BRED INT INC.
XX XX Albertson MC, Cignani AM;
XX XX WPI; 1996-287189/29.
XX XX Prodn of reversible male sterility in a plant - by transformation
XX with a construct with regulatory elements and DNA which inhibit
XX pollen formation of function
XX Example 1; Page 33; 94pp; English.
XX A construct comprising a DNA sequence encoding a gene product which
XX inhibits pollen formation or function, an operator controlling its

CC expression functionally linked to a promoter specific to cells
 CC critical to pollen formation can be used in the production of male
 CC sterile plants when inserted into plants and expressed. When these
 CC male sterile plants are then crossed with pollen derived from a male
 CC fertility line, make sterile hybrid plants are produced. These
 CC plants can then be made sterile or fertile depending on whether the
 CC incorporated construct is expressed. The method produces reversible
 CC male sterility in a plant. Two primers (AAT35004, AAT35005) were used
 CC to amplify a partial 5126 promoter cDNA clone which was used to
 CC identify a full length clone from a cDNA library.
 XX
 SQ Sequence 18 BP; 6 A; 4 C; 5 G; 3 T; 0 other;

Query Match 100.0%; Score 18; DB 17; Length 18;
 Best Local Similarity 100.0%; Pred. No. 3.4;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAAACGACGCCAGT 18

Db 1 tgtaaacgacgcccagt 18

RESULT 7

AAT27188

ID AAT27188 standard; DNA; 18 BP.

AC AAT27188;

DT 20-NOV-1996 (first entry)

XX Defensin coding sequence primer #1.

XX Structural analogue; defensin; antibacterial; helmet crab;

KW Intrahemocyte fine granule fraction; gram positive; gram negative;

KW fungi; germicide; preservative; wound healing; ss.

XX Synthetic.

PN JP08092286-A.

XX 09-APR-1996.

PF 01-SEP-1994; 94JP-0232025.

XX 22-JUL-1994; 94JP-0191850.

XX (SEGK) SEIKAGAKU KOGYO CO LTD.

XX WPI; 1996-236096/24.

XX Defensin structural analogue peptide(s) - useful as antimicrobial
 PT agents and germicides

XX Example 2; Page 14; 17pp; Japanese.

XX The sequences given in AAT27186-90 are a probe and primers which were
 CC used in the isolation of the full length defensin coding sequence.
 CC Defensin and its analogues act as antibacterial polypeptides. Peptide
 CC analogues are based on an antibacterial peptide isolated from the
 CC helmet crab intrahemocyte fine granule fraction. They show anti-
 CC bacterial activity against gram positive and gram negative microbes
 CC and fungi. These polypeptides are useful as antibacterial agents,
 CC germicides or as a preservative effective against various microbes.
 CC They are also thought to have wound healing properties. See also
 CC AAR96130-34.

XX Sequence 18 BP; 6 A; 4 C; 5 G; 3 T; 0 other;

Query Match

Best Local Similarity 100.0%; Score 18; DB 17; Length 18;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAAACGACGCCAGT 18

Db 1 tgtaaacgacgcccagt 18

RESULT 8

AAT86529

ID AAT86529 standard; DNA; 18 BP.

XX AC AAT86529;

XX 05-JUN-1998 (first entry)

XX 5'-Terminal amine linked oligonucleotide.

XX Non-fluorescent label; ligand pair; detection; tag; potentiometry;
 KW cleavage; primer; ss.

XX Synthetic.

XX Key Location/Qualifiers

FT modified_base 1

FT /*tag= a

XX /note= "5'-hexylamine-thymine"

PN WO9727327-A2.

XX 31-JUL-1997.

XX 23-JAN-1997; 97WO-US01070.

XX 21-MAR-1996; 96US-0015402.

PR 23-JAN-1996; 96US-0010436.

XX (DARW-) DARWIN MOLECULAR CORP.

XX Howbert JJ, Mulligan JT, Tabone JC, Van Ness J;

XX WPI; 1997-393711/36.

XX Detection of ligand pair binding and analysis of gene expression -
 PT using tags which are detectable by non-fluorescent spectrometry or
 PT potentiometry

XX Example 4; Page 99; 147pp; English.

XX This oligonucleotide was used in the preparation of tagged M13 sequence
 CC primers. The invention relates to a method for detecting the binding of
 CC a first member to a second member of a ligand pair. It comprises: (a)
 CC combining a set of first tagged members with a biological sample (which
 CC may contain one or more second members) for a time sufficient to permit
 CC binding of a first member to a second member, where the tag is
 CC correlative with a particular first member and detectable by non-
 CC fluorescent spectrometry or potentiometry; (b) separating bound first
 CC and second members from unbound members; (c) cleaving the tag from the
 CC tagged first member; and (d) detecting the tag by non-fluorescent
 CC spectrometry or potentiometry, and thus detecting the binding of the
 CC first member to the second member. Analysing the pattern of gene
 CC expression from a selected biological sample comprises: (a) exposing
 CC nucleic acids from a biological sample; (b) combining the exposed
 CC nucleic acids with one or more tagged nucleic acid probes for a time
 CC sufficient for the probes to hybridise to the nucleic acids, where the
 CC tag is correlative with a particular nucleic acid probe and detectable
 CC by non-fluorescent spectrometry or potentiometry; (c) separating
 CC hybridised probes from unhybridised probes; (d) cleaving the tag from
 CC the tagged fragment; and (e) detecting the tag by non-fluorescent
 CC spectrometry or potentiometry, and thus determining the pattern of gene
 CC expression of the sample. The methods may be used in a wide variety of
 CC assays, including nucleic acid assays (e.g. for diagnostic purposes),
 CC protein-based assays, gene expression analysis, detection of
 CC microorganisms, detection of specific sequences in nucleic acid, or
 CC detection of mutations.

XX SQ Sequence 18 BP; 6 A; 4 C; 5 G; 3 T; 0 other;

Query Match 100.0%; Score 18; DB 18; Length 18;
 Best Local Similarity 100.0%; Pred. No. 3.4;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAAACGACGCCAGT 18
 |||||
 Db 1 tgtaaacgacgcccagt 18

RESULT 9
 AAV06702
 ID AAV06702 standard; DNA; 18 BP.
 AC AAV06702;
 XX
 DT 21-MAY-1998 (first entry)
 XX
 DE Tagged M13 sequence primer for detection of nucleic acid molecules.
 XX
 KW Nucleic acid analysis; tag; linker; M13 sequence primer; PCR;
 KW non-fluorescent spectrometry; potentiometry; detection; ss.
 XX
 OS Synthetic.

Key Location/Qualifiers
 modified_base 1
 /*tag= a
 /note= "5'-hexylamine-Thymine"

W09727325-A2.
 31-JUL-1997.
 23-JAN-1997; 97WO-US01046.
 04-JUN-1996; 96US-0020487.
 23-JAN-1996; 96US-0014536.
 (DARW-) DARWIN MOLECULAR CORP.
 Howbert JJ, Mulligan JT, Tabone JC, Van Ness J;
 WPI; 1997-393709/36.

Detection and identification of nucleic acid molecules - using tags
 which may be detected by non-fluorescent spectrometry or
 potentiometry

Example 4; Page 94; 129pp; English.

This sequence represents an M13 sequence primer. The invention relates
 to a method for determining the identity of a nucleic acid (NA)
 molecule which comprises: (a) generating tagged NA molecules from one or
 more selected tagged NA molecules, where a tag is correlative with a
 particular NA fragment and detectable by non-fluorescent spectrometry or
 potentiometry; (b) separating the tagged molecules by size; (c) cleaving
 the tag from the tagged molecule; and (d) detecting the tag by non-
 fluorescent spectrometry or potentiometry, and thus determining the
 identity of the NA molecule. Detecting a selected NA molecule comprises:
 (a) combining a tagged NA probe with target NA molecules for a time
 sufficient to permit hybridisation of the probe to a complementary
 selected target NA sequence, where the tagged NA probe is detectable by
 non-fluorescent spectrometry or potentiometry; (b) altering the size of
 the hybridised tagged probes, the size of unhybridised probes or target
 molecules, or the size of the probe:target hybrids; (c) separating the
 tagged probes by size; (d) cleaving the tag from the tagged probe; and
 (e) detecting the tag by non-fluorescent spectrometry or potentiometry,
 and thus detecting the selected NA molecule.

XX SQ Sequence 18 BP; 6 A; 4 C; 5 G; 3 T; 0 other;

Query Match 100.0%; Score 18; DB 18; Length 18;
 Best Local Similarity 100.0%; Pred. No. 3.4;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAAACGACGCCAGT 18
 |||||
 Db 1 tgtaaacgacgcccagt 18

RESULT 10
 AAV06703
 ID AAV06703 standard; DNA; 18 BP.
 AC AAV06703;
 XX
 DT 22-MAY-1998 (first entry)
 XX
 DE 5'-Terminal amine linked oligonucleotide DMO 767.
 XX
 KW DNA sequencing; tag; mass spectrometry; non-fluorescent spectrometry;
 KW potentiometry; ss.
 XX
 OS Synthetic.

Key Location/Qualifiers
 modified_base 1
 /*tag= a
 /note= "5'-hexylamine-Thymine"

W09727331-A2.
 31-JUL-1997.
 23-JAN-1997; 97WO-US01304.
 23-JAN-1996; 96US-0589260.
 23-JAN-1996; 96US-0010462.
 (DARW-) DARWIN MOLECULAR CORP.
 Howbert JJ, Mulligan JT, Tabone JC, Van Ness J;
 WPI; 1997-393715/36.

Determination of nucleic acid sequences - using tags which are
 detectable by non-fluorescent spectrometry or potentiometry

Example 5; Page 111; 182pp; English.

This sequence represents an oligonucleotide shown in the specification.
 The invention relates to compounds and a method for determining the
 sequence of a nucleic acid molecule. The method comprises: (a) generating
 tagged nucleic acid fragments which are complementary to a selected
 target nucleic acid, where a tag is correlative with a particular
 nucleotide and detectable by non-fluorescent spectrometry or
 potentiometry; (b) separating the tagged fragments by sequential length;
 (c) cleaving the tags from the tagged fragments; and (d) detecting the
 tags by non-fluorescent spectrometry or potentiometry, and from this
 determining the sequence. The methods may be used e.g. for determining
 the sequences of nucleic acid molecules. They may be used for
 determination of multiple nucleic acid sequences simultaneously. The
 methods allow sequencing to be performed with enhanced speed and
 sensitivity.

Sequence 18 BP; 6 A; 4 C; 5 G; 3 T; 0 other;

Query Match 100.0%; Score 18; DB 18; Length 18;
 Best Local Similarity 100.0%; Pred. No. 3.4;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGTAAACGACGCCAGT 18
 |||
 Db 1 tgtaaacgacgcccagt 18

RESULT 11
 AAV12872
 ID AAV12872 standard; DNA; 18 BP.

XX AC AAV12872;
 XX DT 14-MAY-1998 (first entry)

XX DE Primer M13-21 for M13 DNA sequence.
 XX KW Energy transfer dye; donor dye; acceptor dye; oligonucleotide labelling;
 XX KW nucleic acid sequencing; fluorescence intensity; M13; PCR primer; ss.

XX OS Synthetic.

XX FH Key Location/Qualifiers
 XX FT modified_base 1
 XX FT /*tag= a
 XX FT /note= "modified with aminohexyl linkage, to enable
 XX FT attachment to energy transfer dye"

XX PN EP805190-A2.

XX PD 05-NOV-1997.

XX PF 02-MAY-1997; 97EP-0303039.

XX PR 04-OCT-1996; 96US-0726462.

XX PR 03-MAY-1996; 96US-0642330.

XX PA (PEKE) PERKIN-ELMER CORP.

XX PI Lee LG, Rosenblum B, Spurgeon SL;

XX XX WPI; 1997-529051/49.

XX PT Fluorescent energy transfer dyes - useful for labelling
 XX PT dideoxynucleotides, oligonucleotides, etc.

XX PS Example 5; Page 55; 79pp; English.

XX CC This sequence represents a primer for identifying the M13 sequence shown
 CC in AAV12872. This sequence is labelled with a dye of the invention. The
 CC dye is an energy transfer dyes of formula D-R21-71-CO-R22-R28-A (1),
 CC where: D is a donor dye that absorbs light at a first wavelength and
 CC emits excitation energy in response; A is an acceptor dye that absorbs
 CC the excitation energy from D and fluoresces at a second wavelength in
 CC response; Z1 = NH, S or O; R21 = 1-5C alkylene; R22 = an alkene, diene
 CC or alkyne group, an unsaturated 5- or 6-membered ring or a fused ring
 CC structure; R28 = a group which includes a functionality to attach the
 CC linker to the acceptor dye. R28 is especially R29-22-CO, where R29 =
 CC 1-5C alkylene and Z2 = NH, S or O. The dyes are used for labelling
 CC nucleotides, nucleoside mono-, di- and triphosphates, oligonucleotides
 CC and oligonucleotide analogues, especially for labelling oligonucleotide
 CC primers or dideoxynucleotides used for nucleic acid sequencing. The dyes
 CC give greater fluorescence intensities than the acceptor dyes alone.

XX SQ Sequence 18 BP; 6 A; 4 C; 5 G; 3 T; 0 other;

Query Match 100.0%; Score 18; DB 18; Length 18;
 Best Local Similarity 100.0%; Pred. No. 3.4;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGTAAACGACGCCAGT 18
 |||
 Db 1 tgtaaacgacgcccagt 18

RESULT 12

AAV04321

ID AAV04321 standard; DNA; 18 BP.

XX AC AAV04321;

XX DT 20-APR-1998 (first entry)

XX DE Primer used in preparation of osteoprotegerin products.

XX KW Osteoprotegerin; antibody; diagnosis; affinity purification;
 KW recombinant production; transgenic animal; treatment; prevention;
 KW antisense oligonucleotide; probe; detection; screening;
 KW bone disease; osteoporosis; Paget's disease; hypercalcaemia;
 KW hyperparathyroidism; rheumatoid arthritis; osteomyelitis;
 KW osteolytic metastasis; periodontal bone loss; bone necrosis;
 KW osteopaenia; PCR primer; ss.

XX OS Synthetic.

XX PN DE19654610-A1.

XX PD 26-JUN-1997.

XX PF 20-DEC-1996; 96DE-1054610.

XX PR 03-SEP-1996; 96US-0706945.

XX PR 22-DEC-1995; 95US-0577788.

XX XX (AMGE-) AMGEN INC.

XX PI Boyle WJ, Calzone FJ, Lacey DL, Chang MS;

XX XX WPI; 1997-334271/31.

XX PT Nucleic acid encoding osteoprotegerin - useful for treatment of
 XX PT diseases involving excessive bone loss, e.g. osteoporosis

XX PS Example 1; Page 14; 182pp; German.

XX CC The present sequence is a primer, which was used in the preparation
 CC of osteoprotegerin (OPG) products. Anti-OPG antibodies can be used
 CC in OPG diagnostic assays, and as affinity purification materials.
 CC The OPG cDNA can be used to express recombinant OPG and to generate
 CC transgenic animals. It can also be used to regulate the level of
 CC OPG in mammals, specifically to increase OPG levels, however the
 CC use of antisense sequences is also contemplated. Fragments of the
 CC cDNA can be used as probes to detect OPG expressing cells and
 CC tissue, and to screen cDNA libraries for related sequences. OPG can
 CC be used to treat or prevent bone diseases, specifically excessive
 CC bone loss, e.g. osteoporosis, Paget's disease, hypercalcaemia,
 CC hyperparathyroidism, rheumatoid arthritis, osteomyelitis,
 CC osteolytic metastases, periodontal bone loss, bone necrosis and
 CC osteopaenia.

XX SQ Sequence 18 BP; 6 A; 4 C; 5 G; 3 T; 0 other;

Query Match 100.0%; Score 18; DB 18; Length 18;
 Best Local Similarity 100.0%; Pred. No. 3.4;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGTAAACGACGCCAGT 18
 |||
 Db 1 tgtaaacgacgcccagt 18

RESULT 13

AAT89488

ID AAT89488 standard; DNA; 18 BP.

XX XX

us-10-014-743-2.rng

Thu Aug 1 12:08:43 2002

```

AC AAT89488;
XX
XX 20-JAN-1998 (first entry)
XX
XX Human recombinant phosphorylated beta-casein gene PCR primer.
XX
XX Human beta-casein; hBC; phosphorylation; recombinant;
XX PCR primer; Haemophilus influenzae; adhesion; inhibition;
XX
XX Infant formula; ss.
XX
XX Synthetic.
XX OS Homo sapiens.
XX
XX WO9717449-A1.
XX
XX 15-MAY-1997.
XX
XX 06-NOV-1996; 96WO-US17729.
XX
XX 06-NOV-1995; 95US-0554135.
XX
XX (ABBO ) ABBOTT LAB.
XX
XX Baxter JH, Hansson L, Hards RG, Mukerji P, Thurmond JM;
XX
XX WPI; 1997-281038/25.
XX
XX Production of recombinant phosphorylated human beta-casein - using
XX plasmid comprising promoter, sequence encoding beta-casein and
XX sequence for phosphorylating kinase
XX
XX Disclosure: Page 34; 51pp; English.
XX
XX This primer is used in PCR amplification for producing beta-casein in
XX E. coli. The amplified fragment after purification is cloned in the
XX expression vector pET-26b and beta-casein in E. coli is produced after
XX further expression and recombination techniques. Such extra cellular
XX localisation eases the purification process of the phosphorylated human
XX beta-casein (hBC). The phosphorylated hBC has the same bioactivity as
XX native hBC as shown by its ability to inhibit the adhesion of
XX H. influenza to human pharyngeal cells. The recombinant phosphorylated
XX hBC can be used in liquid nutritional products, particularly in an
XX infant formula.
XX
XX Note: This sequence designated as SEQ.ID.No.3 in the sequence listing
XX differs from the sequence described as SEQ.ID. No.3 in Example 5
XX (see AAT65778).
XX
XX Sequence 18 BP; 6 A; 4 C; 5 G; 3 T; 0 other;

Query Match 100.0%; Score 18; DB 18; Length 18;
Best Local Similarity 100.0%; Pred. No. 3.4;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAAACGACGGCCAGT 18
Db 1 tgtaaaacgacggccagt 18

RESULT 14
AAT89489
ID AAT89489 standard; DNA; 18 BP.
XX
XX AAT89489;
XX
XX 20-JAN-1998 (first entry)
XX
XX Human recombinant phosphorylated beta-casein gene PCR primer.
XX
XX Human beta-casein; hBC; phosphorylation; recombinant;
XX PCR primer; Haemophilus influenzae; adhesion; inhibition;
XX
XX otitis media; ss.
XX

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```

OS Synthetic.
OS Homo sapiens.
XX
XX WO9717085-A2.
XX
XX 15-MAY-1997.
XX
XX 06-NOV-1996; 96WO-US17860.
XX
XX 06-NOV-1995; 95US-0552529.
XX
XX (ABBO ) ABBOTT LAB.
XX
XX Anderson SN, Baxter JH, Hards RG, Harvey LA;
XX Leonard AE, Mukerji P, Thurmond JM, Hansson LB;
XX
XX WPI; 1997-280800/25.
XX
XX Inhibiting attachment of H. influenzae to human cells - uses
XX recombinant phosphorylated beta-casein, protects human infants from
XX otitis media
XX
XX Disclosure: Page 32; 48pp; English.
XX
XX This primer is used in PCR amplification for producing beta-casein in
XX E. coli. The amplified fragment after purification is cloned in the
XX expression vector pET-26b and beta-casein in E. coli is produced after
XX further expression and recombination techniques. Such extra cellular
XX localisation eases the purification process of the phosphorylated human
XX beta-casein (hBC). The phosphorylated hBC has the same bioactivity as
XX native hBC as shown by its ability to inhibit the adhesion of
XX H. influenza to human pharyngeal cells. The recombinant phosphorylated
XX hBC can be used for inhibiting H. influenzae attachment to (nasal)
XX pharyngeal cells and for protecting human infants from otitis media.
XX
XX Note: This sequence designated as SEQ.ID.No.3 in the sequence listing
XX differs from the sequence described as SEQ.ID. No.3 in Example 5
XX (see AAT68821).
XX
XX Sequence 18 BP; 6 A; 4 C; 5 G; 3 T; 0 other;

Query Match 100.0%; Score 18; DB 18; Length 18;
Best Local Similarity 100.0%; Pred. No. 3.4;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAAACGACGGCCAGT 18
Db 1 tgtaaaacgacggccagt 18

RESULT 15
AAT88395
ID AAT88395 standard; DNA; 18 BP.
XX
XX AAT88395;
XX
XX 29-JAN-1998 (first entry)
XX
XX Energy transfer fluorescent dye tagged oligonucleotide label.
XX
XX Energy donor; energy acceptor; energy transfer; identification;
XX fluorescent dye tagged oligonucleotide; label; ss.
XX
XX Synthetic.
XX
XX Key Location/Qualifiers
XX modified_base 1
XX /tag= a
XX /note= "donor-acceptor fluorophore pair separated
XX by six 1',2'-dideoxyribose phosphates (S),
XX e.g. 5'-Donor-SSSSS-T-Acceptor"
XX
XX WO9711084-A1.

```

```
XX
PD 27-MAR-1997.
XX
PF 12-AUG-1996; 96WO-US13134.
XX
PR 20-SEP-1995; 95US-0531132.
XX
PA (REGC ) UNIV CALIFORNIA.
XX
PI Glazer AN, Ju J, Mathies RA;
XX
DR WPI; 1997-202806/18.
XX
PT New compounds comprising an energy donor component and an acceptor
PT component - are useful as labels for identifying different nucleic
XX acid sequences in electrophoresis
XX
PS Example; Page 9; 22pp; English.
XX
CC A novel compound comprises an energy donor component (EDC) and an
CC acceptor component (AC), which absorbs energy transferred by the
CC EDC, linked by a backbone comprising sugar phosphate ester monomer
CC linkages with the 1-hydroxyl group being etherified or replaced by
CC a hydrogen. The present sequence, a typical energy transfer
CC fluorescent dye tagged oligonucleotide, was synthesised with
CC donor-acceptor fluorophore pairs separated by six
CC 1',2'-dideoxyribose phosphates. The compound can be used as a label
CC to identify different nucleic acid sequences in electrophoresis
CC separations, and may be prepared using conventional polynucleotide
CC synthetic techniques. When a family of the compounds share a common
CC EDC and spacers, but vary as to the AC, they can be excited at the
CC same wavelength, but exhibit widely spaced emission wavelengths.
XX
SQ Sequence 18 BP; 6 A; 4 C; 5 G; 3 T; 0 other;
```

Query Match 100.0%; Score 18; DB 18; Length 18;
Best Local Similarity 100.0%; Pred. No. 3.4;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 TGTAACGACGCCACT 18
   |||||
Db 1 tgtaaacgacgccagt 18
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Search completed: August 1, 2002, 09:37:28
Job time: 6764 sec

GenCore version 4.5
Copyright (c) 1993 - 2000 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 1, 2002, 09:30:47 ; Search time 87.24 seconds
(without alignments)
50.681 Million cell updates/sec

Title: US-10-014-743-2
Perfect score: 18
Sequence: 1 TGTAAACGACGCCAGT 18

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 383533 seqs, 122816752 residues
Total number of hits satisfying chosen parameters: 767066

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA.*
1: /cgn2_6/ptodata/1/ina/5A_COMB.seq.*
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq.*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq.*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq.*
5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq.*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	18	100.0	18	1	US-08-045-758B-1
2	18	100.0	18	1	US-08-286-889-40
3	18	100.0	18	1	US-08-494-216-1
4	18	100.0	18	1	US-08-471-601-2
5	18	100.0	18	1	US-08-474-556-2
6	18	100.0	18	1	US-08-554-642-3
7	18	100.0	18	1	US-08-485-618-40
8	18	100.0	18	1	US-08-351-899-2
9	18	100.0	18	1	US-08-479-382-2
10	18	100.0	18	1	US-08-362-652-40
11	18	100.0	18	1	US-08-505-509-3
12	18	100.0	18	1	US-08-470-354-2
13	18	100.0	18	1	US-08-479-383-2
14	18	100.0	18	1	US-08-512-681-26
15	18	100.0	18	1	US-08-726-462B-2
16	18	100.0	18	1	US-08-554-135-3
17	18	100.0	18	1	US-08-605-672-40
18	18	100.0	18	2	US-08-482-293A-40
19	18	100.0	18	2	US-08-943-363-40
20	18	100.0	18	2	US-08-479-041-2
21	18	100.0	18	2	US-08-491-690A-3
22	18	100.0	18	2	US-08-710-330A-7
23	18	100.0	18	2	US-08-540-228-1
24	18	100.0	18	2	US-08-505-617-11
25	18	100.0	18	2	US-08-642-330-2
26	18	100.0	18	2	US-08-432-871C-32
27	18	100.0	18	2	US-08-751-189-9

28	18	100.0	18	2	US-08-951-648-28	Sequence 28, Appl
29	18	100.0	18	2	US-08-964-725-9	Sequence 9, Appl
30	18	100.0	18	2	US-08-554-137-3	Sequence 3, Appl
31	18	100.0	18	2	US-09-046-203-2	Sequence 2, Appl
32	18	100.0	18	2	US-09-018-170-11	Sequence 11, Appl
33	18	100.0	18	2	US-08-948-364-1	Sequence 1, Appl
34	18	100.0	18	2	US-09-060-836-9	Sequence 9, Appl
35	18	100.0	18	2	US-08-715-461-1	Sequence 1, Appl
36	18	100.0	18	2	US-08-815-448-1	Sequence 1, Appl
37	18	100.0	18	2	US-08-890-980-85	Sequence 85, Appl
38	18	100.0	18	3	US-08-589-939-70	Sequence 70, Appl
39	18	100.0	18	3	US-08-974-022-10	Sequence 10, Appl
40	18	100.0	18	3	US-08-890-979-74	Sequence 74, Appl
41	18	100.0	18	3	US-08-873-470-1	Sequence 1, Appl
42	18	100.0	18	3	US-09-147-550-114	Sequence 114, App
43	18	100.0	18	3	US-09-032-894-85	Sequence 85, Appl
44	18	100.0	18	3	US-09-071-710-20	Sequence 20, Appl
45	18	100.0	18	3	US-09-174-437-28	Sequence 28, Appl

ALIGNMENTS

RESULT 1
US-08-045-758B-1
; Sequence 1, Application US/08045758B
; Patent No. 5451663
; GENERAL INFORMATION:
; APPLICANT: Kang, Hee Chol
; APPLICANT: Haugland, Richard P.
; TITLE OF INVENTION: Long wavelength Chemically Reactive Dipyrrometheneboron
; TITLE OF INVENTION: Difluoride Dyes and Conjugates.
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Molecular Probes, Inc.
; STREET: 4849 Pitchford Avenue
; CITY: Eugene
; STATE: Oregon
; COUNTRY: USA
; ZIP: 97402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch
; COMPUTER: IBM
; OPERATING SYSTEM: MS-DOS 6.0
; SOFTWARE: WordPerfect 6.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/045.758B
; FILING DATE: 04/08/93
; CLASSIFICATION: 530
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/786,767
; FILING DATE: 11/01/91
; ATTORNEY/AGENT INFORMATION:
; NAME: Helfenstein, Allegra J.
; REGISTRATION NUMBER: 34,179
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (503)465-8300
; TELEFAX: (503)344-6504
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 bases
; TYPE: Nucleic Acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; MOLECULE TYPE: Other nucleic acid
; DESCRIPTION: A 5'-amine-derivatized oligonucleotide prepared by automated
; DESCRIPTION: solid phase synthesis.
; HYPOTHEetical: no
; ANTI-SENSE: no
; US-08-045-758B-1

Query Match 100.0% Score 18; DB 1: Length 18;

Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAAACGACGGCCAGT 18
|||||
Db 1 TGTAAACGACGGCCAGT 18

RESULT 2

US-08-286-889-40
; Sequence 40, Application US/08286889
; Patent No. 5470953
; GENERAL INFORMATION:
; APPLICANT: Gallatin, W. Mich
; APPLICANT: Van der Vieren, Monica
; TITLE OF INVENTION: No. 5470953el Human 2 Integrin Alpha Subunit
; NUMBER OF SEQUENCES: 51
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 233 South Wacker Drive, 6300 Sear Tower
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States
; ZIP: 60606-6402
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/286,889
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/173,497
; FILING DATE: 23-DEC-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams Jr., Joseph A.
; REGISTRATION NUMBER: P38,659
; REFERENCE/DOCKET NUMBER: 27866/32168
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-474-6300
; TELEFAX: 312-474-0448
; TELEX: 25-3856
; INFORMATION FOR SEQ ID NO: 40:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
US-08-286-889-40

Query Match 100.0%; Score 18; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAAACGACGGCCAGT 18
|||||
Db 1 TGTAAACGACGGCCAGT 18

RESULT 3

US-08-494-216-1
; Sequence 1, Application US/08494216
; Patent No. 5614386
; GENERAL INFORMATION:
; APPLICANT: METZKER, MICHAEL L.
; APPLICANT: GIBBS, RICHARD A.
; TITLE OF INVENTION: ALTERNATIVE DYE-LABELLED PRIMERS FOR
; AUTOMATED DNA SEQUENCING
; NUMBER OF SEQUENCES: 2

; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FULBRIGHT & JAWORSKI L.L.P.
; STREET: 1301 MCKINNEY, SUITE 5100
; CITY: HOUSTON
; STATE: TEXAS
; COUNTRY: USA
; ZIP: 77010
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/494,216
; FILING DATE: 23-JUN-1995
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: BRASHEARS-MACATEE, SARAH J.
; REGISTRATION NUMBER: 38,087
; REFERENCE/DOCKET NUMBER: D-5776
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713-651-5151
; TELEFAX: 713-651-5246
; TELEX: 76-2829
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "Oligonucleotide"
; HYPOTHETICAL: YES
; POSITION IN GENOME:
; UNITS: 18 bp
US-08-494-216-1

Query Match 100.0%; Score 18; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAAACGACGGCCAGT 18
|||||
Db 1 TGTAAACGACGGCCAGT 18

RESULT 4

US-08-471-601-2
; Sequence 2, Application US/08471601
; Patent No. 5689049
; GENERAL INFORMATION:
; APPLICANT: CIGAN, Andrew M.
; APPLICANT: ALBERTSEN, Marc C.
; TITLE OF INVENTION: Reversible Nuclear Genetic System For
; Male Sterility In Transgenic Plants
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 3000 K Street, N.W., Suite 500
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/471,601
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/351,899
FILING DATE: 08-DEC-1994
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 33229/341/PIHI
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300
TELEFAX: (202)672-5399
TELEX: 904136
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-471-601-2

Query Match 100.0%; Score 18; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAAACGACGGCCAGT 18
DB 1 TGTAAACGACGGCCAGT 18

RESULT 5
US-08-474-556-2
Sequence 2, Application US/08474556
Patent No. 5689051
GENERAL INFORMATION:
APPLICANT: CIGAN, Andrew M.
APPLICANT: ALBERTSEN, Marc C.
TITLE OF INVENTION: Reversible Nuclear Genetic System For
TITLE OF INVENTION: Male Sterility In Transgenic Plants
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W., Suite 500
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/474,556
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/351,899
FILING DATE: 08-DEC-1994
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 33229/329/PIHI
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300
TELEFAX: (202)672-5399
TELEX: 904136
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-474-556-2

Query Match 100.0%; Score 18; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAAACGACGGCCAGT 18
DB 1 TGTAAACGACGGCCAGT 18

RESULT 6
US-08-554-642-3
Sequence 3, Application US/08554642
Patent No. 5710044
GENERAL INFORMATION:
APPLICANT: Mukerji, P.
APPLICANT: Thurmond, J.
APPLICANT: Hansson, L.
APPLICANT: Baxter, J.
APPLICANT: Hards, R.
TITLE OF INVENTION: A Plasmid For Expressing Modified
TITLE OF INVENTION: Recombinant Proteins in a Bacterial
TITLE OF INVENTION: System
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: Donald O. Nickey
ADDRESSEE: ROSS Products Division
ADDRESSEE: Abbott Laboratories
STREET: 625 Cleveland Avenue
CITY: Columbus
STATE: Ohio
COUNTRY: United States of America
ZIP: 43215
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: MS-DOS Version 6.21
SOFTWARE: WordPerfect Version 6.0a
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/554,642
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/395,239
FILING DATE: 27-FEB-1995
TELECOMMUNICATION INFORMATION:
TELEPHONE: (614) 624-7080
TELEFAX: (614) 624-3074
TELEX: No. 5710044e
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: Nucleic acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: DNA
US-08-554-642-3

Query Match 100.0%; Score 18; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAAACGACGGCCAGT 18
DB 1 TGTAAACGACGGCCAGT 18

RESULT 7
US-08-485-618-40
Sequence 40, Application US/08485618
Patent No. 5728533
GENERAL INFORMATION:
APPLICANT: Gallatin, W. Michael

APPLICANT: Van der Vieren, Monica
TITLE OF INVENTION: No. 5728533el Human 2 Integrin Alpha Subunit
NUMBER OF SEQUENCES: 103
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 233 South Wacker Drive, 6300 Sear Tower
CITY: Chicago
STATE: Illinois
COUNTRY: United States
ZIP: 60606-6402
COMPUTER TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/485,618
FILING DATE: 21-DEC-1994
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/173,497
FILING DATE: 23-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/286,889
FILING DATE: 5-AUG-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/362,652
FILING DATE: 21-DEC-1994
ATTORNEY/AGENT INFORMATION:
NAME: Williams Jr., Joseph A.
REGISTRATION NUMBER: 38,659
REFERENCE/DOCKET NUMBER: 27866/32797
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
TELEFAX: 312-474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 40:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-485-618-40

Query Match 100.0%; Score 18; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAAACGACGCGCCAGT 18
|||||
DB 1 TGTAAACGACGCGCCAGT 18

RESULT 8
US-08-351-899-2
Sequence 2, Application US/08351899
Patent No. 5750868
GENERAL INFORMATION:
APPLICANT: CIGAN, Andrew M.
ATTORNEY/AGENT INFORMATION:
TITLE OF INVENTION: Reversible Nuclear Genetic System For
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W., Suite 500
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20007-5109
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/351,899
FILING DATE: 08-DEC-1994
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 33229/208/PIHI
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300
TELEFAX: (202)672-5399
TELEX: 904136
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-351-899-2

Query Match 100.0%; Score 18; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAAACGACGCGCCAGT 18
|||||
DB 1 TGTAAACGACGCGCCAGT 18

RESULT 9
US-08-479-382-2
Sequence 2, Application US/08479382
Patent No. 5763243
GENERAL INFORMATION:
APPLICANT: CIGAN, Andrew M.
ATTORNEY/AGENT INFORMATION:
TITLE OF INVENTION: Reversible Nuclear Genetic System For
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W., Suite 500
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20007-5109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/479,382
FILING DATE: 07-JUN-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/351,899
FILING DATE: 08-DEC-1994
ATTORNEY/AGENT INFORMATION:
NAME: BENT, Stephen A.
REGISTRATION NUMBER: 29,768
REFERENCE/DOCKET NUMBER: 33229/339/PIHI
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202)672-5300
TELEFAX: (202)672-5399
TELEX: 904136
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs

TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-479-382-2

Query Match 100.0%; Score 18; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAAACGACGCCAGT 18
|||||

Db 1 TGTAAACGACGCCAGT 18

RESULT 10
US-08-362-652-40
Sequence 40, Application US/08362652
Patent No. 5766850
GENERAL INFORMATION:
APPLICANT: Gallatin, W. Michael
APPLICANT: Van der Vliet, Monica
TITLE OF INVENTION: No. 5766850el Human 2 Integrin Alpha Subunit
NUMBER OF SEQUENCES: 93
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 233 South Wacker Drive, 6300 Sear Tower
CITY: Chicago
STATE: Illinois
COUNTRY: United States
ZIP: 60606-6402
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/362,652
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/173,497
FILING DATE: 23-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/286,889
FILING DATE: 5-AUG-1994
ATTORNEY/AGENT INFORMATION:
NAME: Williams Jr., Joseph A.
REGISTRATION NUMBER: 38,659
REFERENCE/DOCKET NUMBER: 27866/32391
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-474-6300
TELEFAX: 312-474-0448
TELEX: 25-3856
INFORMATION FOR SEQ ID NO: 40:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-362-652-40

Query Match 100.0%; Score 18; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAAACGACGCCAGT 18
|||||

Db 1 TGTAAACGACGCCAGT 18

RESULT 11
US-08-505-509-3
Sequence 3, Application US/08505509
Patent No. 5776680
GENERAL INFORMATION:
APPLICANT: Liebowitz, Michael J.
APPLICANT: Liu, Yong
TITLE OF INVENTION: Diagnostic Probes for
TITLE OF INVENTION: Pneumocystis Carinii
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESS:
ADDRESSEE: Richard R. Muccino
STREET: P.O. Box 1267
CITY: Princeton
STATE: New Jersey
COUNTRY: USA
ZIP: 08551
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/505,509
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/298,087
FILING DATE:
APPLICATION NUMBER: US/07/922,987
FILING DATE: 30-JUL-1992
ATTORNEY/AGENT INFORMATION:
NAME: Muccino, Richard R.
REGISTRATION NUMBER: 32,538
REFERENCE/DOCKET NUMBER: UMD1-009
TELECOMMUNICATION INFORMATION:
TELEPHONE: (609) 466-3407
TELEFAX: (609) 466-2760
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 18 base pairs
TYPE: nucleic acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: DNA (genomic)
US-08-505-509-3

Query Match 100.0%; Score 18; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAAACGACGCCAGT 18
|||||

Db 1 TGTAAACGACGCCAGT 18

RESULT 12
US-08-470-354-2
Sequence 2, Application US/08470354
Patent No. 5792853
GENERAL INFORMATION:
APPLICANT: CIGAN, Andrew M.
APPLICANT: ALBERTSEN, Marc C.
TITLE OF INVENTION: Reversible Nuclear Genetic System For
TITLE OF INVENTION: Male Sterility In Transgenic Plants
NUMBER OF SEQUENCES: 23
CORRESPONDENCE ADDRESS:
ADDRESSEE: Foley & Lardner
STREET: 3000 K Street, N.W., Suite 500
CITY: Washington
STATE: D.C.
COUNTRY: USA

; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA: US/08/470,354
; APPLICATION NUMBER: US/08/470,354
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/351,899
; FILING DATE: 08-DEC-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 33229/337/PIHI
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202)672-5300
; TELEFAX: (202)672-5399
; TELEX: 904136
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-470-354-2

Query Match 100.0%; Score 18; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAAACGACGGCCAGT 18
| | | | | | | | | | | | | | | | | |
Db 1 TGTAAACGACGGCCAGT 18

RESULT 13
US-08-479-383-2
; Sequence 2, Application US/08479383
; Patent No. 5795753
; GENERAL INFORMATION:
; APPLICANT: CIGAN, Andrew M.
; APPLICANT: ALBERTSEN, Marc C.
; TITLE OF INVENTION: Reversible Nuclear Genetic System For
; TITLE OF INVENTION: Male Sterility In Transgenic Plants
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lardner
; STREET: 3000 K Street, N.W., Suite 500
; CITY: Washington
; STATE: D.C.
; COUNTRY: USA
; ZIP: 20007-5109
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/479,383
; FILING DATE: 07-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/351,899
; FILING DATE: 08-DEC-1994
; ATTORNEY/AGENT INFORMATION:
; NAME: BENT, Stephen A.
; REGISTRATION NUMBER: 29,768
; REFERENCE/DOCKET NUMBER: 33229/340/PIHI
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202)672-5300
; TELEFAX: (202)672-5399

; TELEX: 904136
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-479-383-2

Query Match 100.0%; Score 18; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAAACGACGGCCAGT 18
| | | | | | | | | | | | | | | | | |
Db 1 TGTAAACGACGGCCAGT 18

RESULT 14
US-08-512-681-26
; Sequence 26, Application US/08512681
; Patent No. 5795976
; GENERAL INFORMATION:
; APPLICANT: Oefner, Peter J.
; APPLICANT: Underhill, Peter A.
; TITLE OF INVENTION: Detection of DNA Heteroduplex Molecules
; TITLE OF INVENTION: by Denaturing High Performance Liquid Chromatography and
; TITLE OF INVENTION: Methods for Comparative Sequencing
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dehlinger & Associates
; STREET: 350 Cambridge Ave., Suite 250
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94306
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/512,681
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Evans, Susan T.
; REGISTRATION NUMBER: 38,443
; REFERENCE/DOCKET NUMBER: 8600-0155
; INFORMATION FOR SEQ ID NO: 26:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; ORIGINAL SOURCE:
; INDIVIDUAL ISOLATE: 439-MER FORWARD PRIMER
; US-08-512-681-26

Query Match 100.0%; Score 18; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAAACGACGGCCAGT 18
| | | | | | | | | | | | | | | | | |
Db 1 TGTAAACGACGGCCAGT 18

RESULT 15
US-08-726-462B-2

Thu Aug 1 12:08:44 2002

```

; Sequence 2, Application US/08726462B
; Patent No. 5800996
; GENERAL INFORMATION:
; APPLICANT: Perkin-Elmer Corporation, Applied Biosystems
; APPLICANT: Division
; TITLE OF INVENTION: ENERGY TRANSFER DYES WITH ENHANCED
; TITLE OF INVENTION: FLUORESCENCE
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: David J. Weitz, Wilson Sonsini Goodrich
; ADDRESSEE: & Rosati
; STREET: 650 Page Mill Road
; CITY: Palo Alto
; STATE: California
; COUNTRY: USA
; ZIP: 94304-1050
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5 inch diskette
; COMPUTER: IBM compatible
; OPERATING SYSTEM: Microsoft Windows 3.1/DOS 5.0
; SOFTWARE: Wordperfect for windows 6.0,
; SOFTWARE: ASCII (DOS) TEXT format
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/726,462B
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/642,330
; FILING DATE: May 3, 1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/672,196
; FILING DATE: June 27, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: David J. Weitz
; REGISTRATION NUMBER: 38,362
; REFERENCE/DOCKET NUMBER: PELM4304
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 493-9300
; TELEFAX: (415) 493-6811
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 nucleotides
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; US-08-726-462B-2

```

```

Query Match ` 100.0%; Score 18; DB 1; Length 18;
Best Local Similarity 100.0%; Pred. No. 0.38;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1 TGTAAACGACGGCCAGT 18
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Db 1 TGTAAACGACGGCCAGT 18

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Search completed: August 1, 2002, 09:30:48
Job time: 6609 sec

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Thu Aug 1 12:08:46 2002

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: August 1, 2002, 08:39:40 ; Search time 2971.21 Seconds
(without alignments)
81.766 Million cell updates/sec

Title: US-10-014-743-2

Perfect score: 18

Sequence: 1 TGTAAACGACGCCAGT 18

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 13736207 seqs, 6748477542 residues

Total number of hits satisfying chosen parameters: 27472414

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

- EST:*
- 1: em_estba:*
 - 2: em_esthum:*
 - 3: em_estim:*
 - 4: em_estmu:*
 - 5: em_estov:*
 - 6: em_estpl:*
 - 7: em_estro:*
 - 8: em_htc:*
 - 9: gb_est1:*
 - 10: gb_est2:*
 - 11: gb_htc:*
 - 12: gb_gss:*
 - 13: em_gss_hum:*
 - 14: em_gss_inv:*
 - 15: em_gss_pin:*
 - 16: em_gss_vrt:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	18	100.0	73	9	AA680645 LmFrAm009
C 2	18	100.0	88	10	BI938357 de42a01.y
C 3	18	100.0	89	10	N28043 EST000247 S
C 4	18	100.0	90	9	AJ239924 AJ239924
C 5	18	100.0	92	10	N28040 EST000177 S
C 6	18	100.0	94	10	BI845735 fs96c02.x
C 7	18	100.0	96	10	R29179 F1-287D 22
C 8	18	100.0	99	10	T10982 hbc297 Huma
C 9	18	100.0	100	9	AA952864 SMTBADA00
C 10	18	100.0	100	9	AA098627 SMTBADA00
C 11	18	100.0	100	9	AW113079 MC7322 mo
C 12	18	100.0	100	9	AW754394 CM0-CT034
C 13	18	100.0	100	9	AW812014 RC6-ST017
C 14	18	100.0	100	9	AW812016 RC6-ST017
C 15	18	100.0	100	10	BF901653 RC4-WT016
C 16	18	100.0	100	12	BH234794 MEAA_B03.
C 17	18	100.0	102	9	AA741768 LmLV39p3/

C	18	100.0	103	9	AU180326
19	18	100.0	103	9	BE079941
20	18	100.0	105	9	AW754393
C 21	18	100.0	108	10	BI716021
C 22	18	100.0	109	10	N28049
C 23	18	100.0	110	9	AA728161
C 24	18	100.0	110	9	AA741956
C 25	18	100.0	113	9	AA728380
26	18	100.0	113	9	AW749048
27	18	100.0	113	9	AW809021
28	18	100.0	114	9	AW809013
29	18	100.0	115	9	AI940435
30	18	100.0	117	9	AW062733
31	18	100.0	117	9	BE079985
C 32	18	100.0	118	9	AA804151
C 33	18	100.0	118	9	AW855817
34	18	100.0	119	9	AW750572
C 36	18	100.0	120	9	AA864147
C 37	18	100.0	121	10	BI675749
C 38	18	100.0	122	10	N28034
C 39	18	100.0	122	12	BH240653
C 40	18	100.0	123	12	BH243317
C 41	18	100.0	125	12	BH471635
C 42	18	100.0	126	9	AA283326
C 43	18	100.0	126	12	BH240234
C 44	18	100.0	127	10	BM129856
45	18	100.0	128	9	AW845527

ALIGNMENTS

RESULT 1

AA680645/c
LOCUS
DEFINITION
LmFrAm0099 Leishmania major Amastigote Lambda zap II library
Leishmania major cDNA clone H02 5', mRNA sequence.
ACCESSION
AA680645.1 GI:2662650
VERSION
EST.
KEYWORDS
Leishmania major.
SOURCE
Leishmania major
Eukaryota; Euglenozoa; Kinetoplastida; Trypanosomatidae;
Leishmania.
REFERENCE
1 (bases 1 to 73)
Norrish, A.R., Dvall, S.D., Smith, D.F. and Blackwell, J.M.
Analysis of Leishmania Major Amastigote Expressed Sequence Tags
Unpublished (1997)
JOURNAL
Contact: Blackwell JM
COMMENT
Cambridge Institute for Medical Research
Wellcome Trust/MRC Building, Addenbrooke's Hospital, Hills Road,
Cambridge CB2 2XY, UK
Tel: 01223 336 143
Fax: 01223 331 206
Email: jmb37@cus.cam.ac.uk
PCR Primers
FORWARD: GTAAACGACGCCAGT
BACKWARD: GGAACAGCTATGACCATG
Seq primer: AATTAACTCTACTAAAGG
High quality sequence stop: 72.
FEATURES
Location/Qualifiers
1..73
/organism="Leishmania major"
/strain="Friedlin"
/db_xref="taxon:5664"
/clone="H02"
/clone_lib="Leishmania major Amastigote Lambda zap II library"
/cell_type="Amastigote"
/note="Vector: Lambda zap II; Site_1: XhoI; Site_2: NotI"
BASE COUNT
15 a 21 c 18 g 19 t
ORIGIN

Query Match 100.0%; Score 18; DB 9; Length 73;
 Best Local Similarity 100.0%; Pred. No. 22;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAAACGACGCCAGT 18
 |||||
 Db 71 TGTAAACGACGCCAGT 54

RESULT 2
 BI938357/c
 LOCUS
 DEFINITION de42a01.y1 Wellcome CRC PRN3 Dorsal lip Xenopus laevis cDNA clone
 IMAGE:3474313 5' similar to TR:Q47522 Q47522 PLASMID PQF50 DNA WITH
 POLYLINKER AND PARTIAL LACZ GENE ;, mRNA sequence.
 BI938357
 ACCESSION BI938357.1 GI:16252829
 VERSION
 KEYWORDS EST.
 SOURCE African clawed frog.
 ORGANISM
 Xenopus laevis

REFERENCE
 AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Amphibia; Batrachia; Anura; Mesobatrachia; Pipidae;
 Xenopodinae; Xenopus.
 1 (bases 1 to 88)
 Clifton, S., Johnson, S.L., Blumberg, B., Song, J., Hillier, L., Pape, D.,
 Martin, J., Wylie, T., Underwood, K., Theising, B., Bowers, Y., Person,
 B., Gibbons, M., Harvey, N., Ritter, E., Jackson, Y., McCann, R.,
 Waterston, R. and Wilson, R.
 WashU Xenopus EST project, 1999
 Other ESTs: de42a01.x1
 Contact: Sandy Clifton, Ph.D.
 WashU Xenopus EST project, 1999
 Washington University School of Medicine
 444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: est@watson.wustl.edu

TITLE
 JOURNAL
 COMMENT
 Library constructed by A.M. Zorn (Wellcome/CRC Institute). DNA
 Sequencing by: Washington University Genome Sequencing Center
 Clone distribution: Xenopus clones from this library are available
 through the I.M.A.G.E. Consortium/LLNL at: info@image.llnl.gov
 Trace considered overall poor quality
 Seq primer: -40Rp from Gibco
 High quality sequence stop: 1.
 Location/Qualifiers
 1..88
 /organism="Xenopus laevis"
 /db_xref="taxon:8355"
 /clone="IMAGE:3474313"
 /clone_lib="Wellcome CRC PRN3 dorsal lip"
 /tissue_type="dorsal lip"
 /lab_host="DH10B (phage-resistant)"
 /note="Vector: pBSRN3; Site_1: NotI; Site_2: EcoRI; cDNAs
 were oligo-dT primed and directionally cloned. Staging
 according to Nieuwkoop and Faber. Library was constructed
 by A.M. Zorn (Wellcome/CRC Institute)."

BASE COUNT 17 a 31 c 17 g 23 t
 ORIGIN

Query Match 100.0%; Score 18; DB 10; Length 88;
 Best Local Similarity 100.0%; Pred. No. 23;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAAACGACGCCAGT 18
 |||||
 Db 21 TGTAAACGACGCCAGT 4

RESULT 3

N28043/c
 LOCUS
 DEFINITION EST000247 S. mansoni cDNA Schistosoma mansoni cDNA clone
 SMTBADAMS0247SK 5' end similar to M. auratus synaptonemal complex
 DNA, mRNA sequence.
 N28043
 ACCESSION N28043.1 GI:1145899
 VERSION
 KEYWORDS EST.
 SOURCE Schistosoma mansoni.
 ORGANISM
 Schistosoma mansoni
 Eukaryota; Metazoa; Platyhelminthes; Trematoda; Digenea;
 Strigeidida; Schistosomatoidea; Schistosomatidae; Schistosoma.
 1 (bases 1 to 89)
 Sabar, M.A., Hamied, H., ElYassaki, W.M., Romeih, M., Ahmed, H., Mohareb
 M., Eldabaa, I. and Mamdouh, S.
 Schistosoma mansoni cDNAs
 Unpublished (1995)
 COMMENT
 Contact: M.A. Sabar, H. Hamied, W.M. El Yassaki, M. Romeih, H.
 Ahmed, M. Mohareb, I. El Dabaa, S. Mamdouh
 TBRI Biochemistry
 Theodor Bilharz Research Institute
 Imbaba, P.O.Box 12411, Giza, Egypt
 Tel: 202 3128276
 Fax: 202 3121167
 Email: M-Saber@FRU.EUN.EG
 Seq primer: sk.
 Location/Qualifiers
 1..89
 /organism="Schistosoma mansoni"
 /strain="Egyptian"
 /db_xref="taxon:6183"
 /clone="SMTBADAMS0247SK"
 /clone_lib="S. mansoni cDNA"
 /lab_host="E. coli XL Blue1"
 /note="Vector: pBluescript II SK+; Site_1: EcoRI; Site_2:
 XhoI; mRNA was purified from adult couples of S. mansoni.
 cDNA was constructed and cloned simultaneously using
 vector priming with the pBluescript II SK+ vector. cDNA
 was directionally synthesized from the EcoRI site in the
 vector to the XhoI site."

BASE COUNT 23 a 23 c 19 g 24 t
 ORIGIN

Query Match 100.0%; Score 18; DB 10; Length 89;
 Best Local Similarity 100.0%; Pred. No. 23;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAAACGACGCCAGT 18
 |||||
 Db 50 TGTAAACGACGCCAGT 33

RESULT 4
 AJ239924
 LOCUS
 DEFINITION AJ239924 Aspergillus niger ATCC6275 Aspergillus niger cDNA clone
 AN06F05, mRNA sequence.
 AJ239924
 ACCESSION AJ239924.1 GI:5443915
 VERSION
 KEYWORDS EST.
 SOURCE Aspergillus niger.

ORGANISM
 Aspergillus niger
 Eukaryota; Fungi; Ascomycota; Pezizomycotina; Eurotiomycetes;
 Eurotiales; Trichocomaceae; mitosporic Trichocomaceae; Aspergillus.
 1 (bases 1 to 90)
 Choi, J.Y., Lee, D.W., Koh, J.S., Kim, J.H., Yang, M.S. and Chae, K.S.
 Identification of expressed sequence tags (ESTs) of the highly
 transcribed genes in Aspergillus niger
 Biotechnol. Lett. 21, 381-384 (1999)
 COMMENT
 Contact: Chae KS
 Faculty of Biological Sciences
 Chonbuk National University

1

REFERENCE
AUTHORS
TITLE
JOURNAL
MEDLINE
COMMENT

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 96)
Choi,S.S., Yun,J.W., Choi,E.K., Cho,Y.G., Sung,Y.C. and Shin,H.S.
Construction of a gene expression profile of a human fetal liver by single-pass cDNA sequencing
Mamm. Genome 6 (9), 653-657 (1995)
96081342
Contact: Hee-Sup Shin
Developmental Genetics
Pohang Institute of Science & Technology
San31, Hyodong Pohang, 790-784 Republic of Korea
Tel: 562-279-2291
Fax: 562-279-2199
Email: shinhs@vision.postech.ac.kr
Seq primer: T3 primer.
Location/Qualifiers
1..96
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="F1-287D"
/clone_lib="22 week old human fetal liver cDNA library"
/lab_host="XLI-blue MRF"
/note="Vector: pBluescriptII SK(-); Site_1: EcoRI; Site_2: XhoI; The cDNA library made by oligo-dT primed and directionally cloned between 5'Exon I-XhoI3' sites."
24 a 25 c 17 g 26 t 4 others

FEATURES

source

Query Match 100.0%; Score 18; DB 10; Length 96;
Best Local Similarity 100.0%; Pred. No. 24;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAAACGACGCGCCAGT 18
|||||
Db 57 TGTAAACGACGCGCCAGT 40

RESULT

8

LOCUS
DEFINITION
T10982 hbc297 Human pancreatic islet Homo sapiens cDNA clone hbc297 5'end, mRNA sequence.
T10982
T10982.1 GI:391136
EST.
SOURCE
human.

ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 99)
Takeda,J., Yano,H., Eng,S., Zeng,Y. and Bell,G.I.
A molecular inventory of human pancreatic islets: sequence analysis of 1000 cDNA clones
Hum. Mol. Genet. 2, 1793-1798 (1993)
94108427
Contact: Bell GI or Takeda J
HHMI
Univ. of Chicago
5841 S. Maryland Ave., MC1028, Chicago IL 60637
Tel: 3127029116
Fax: 3127020271
Email: g-bell@uchicago.edu
Seq primer: SK primer.
Location/Qualifiers
1..99
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="hbc297"
/clone_lib="Human pancreatic islet"
/note="Vector: Lambda ZAPII; Site_1: Eco RI; Site_2: Xho I; mRNA was prepared from normal adult human islets. cDNA

FEATURES

source

Query Match 100.0%; Score 18; DB 10; Length 96;
Best Local Similarity 100.0%; Pred. No. 24;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAAACGACGCGCCAGT 18
|||||
Db 77 TGTAAACGACGCGCCAGT 60

RESULT

10

LOCUS
DEFINITION
AA098627
SMTBADAMS0626SK S. mansoni cDNA Schistosoma mansoni cDNA clone
SMTBADAMS0626SK 5' similar to Calothrix D253 genomic clone, mRNA sequence.

was directionally synthesized from the Xho I in the vector to the EcoRI site. cDNA was size fractionated to remove sequences <1000 bp in size."
24 a 30 c 20 g 25 t

BASE COUNT

ORIGIN

Query Match 100.0%; Score 18; DB 10; Length 99;
Best Local Similarity 100.0%; Pred. No. 24;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAAACGACGCGCCAGT 18
|||||
Db 42 TGTAAACGACGCGCCAGT 25

RESULT

9

LOCUS
DEFINITION
AA952864
SMTBADA000626SK Schistosoma Lambda Zap II Schistosoma mansoni cDNA clone SMA626 5', mRNA sequence.
AA952864
AA952864.1 GI:3116456
EST.
KEYWORDS
SOURCE
Schistosoma mansoni.
ORGANISM
Schistosoma mansoni.
Eukaryota; Metazoa; Platyhelminthes; Trematoda; Digenea; Strigeidida; Schistosomatoidea; Schistosomatidae; Schistosoma.
1 (bases 1 to 100)
Saber,M.A.
Expressed sequence tags from cDNA clones isolated from Schistosoma mansoni cDNA libraries
Unpublished (1998)
Contact: Saber,MA
Department of Biochemistry
Theodor Bilharz Research Institute
P.O. BOX 30, Imbaba, Giza, Egypt
Tel: (202) 5402977
Fax: (202) 5402977
Email: M.SABER@rcu.eun.eg
Seq primer: SK primer 'Stratagene'.
Location/Qualifiers
1..100
/organism="Schistosoma mansoni"
/strain="Egyptian"
/db_xref="taxon:6183"
/clone="SMA626"
/clone_lib="Schistosoma Lambda Zap II"
/sex="Mixed"
/dev_stage="Adult"
/lab_host="Mus musculus"
/note="Vector: Lambda Zap II; Site_1: EcoRI; Site_2: XhoI; Poly adenylated RNA was isolated from adult of S. mansoni worms."

BASE COUNT

ORIGIN

Query Match 100.0%; Score 18; DB 9; Length 100;
Best Local Similarity 100.0%; Pred. No. 24;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAAACGACGCGCCAGT 18
|||||
Db 77 TGTAAACGACGCGCCAGT 60

FEATURES

source

Query Match 100.0%; Score 18; DB 9; Length 100;
Best Local Similarity 100.0%; Pred. No. 24;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAAACGACGCGCCAGT 18
|||||
Db 77 TGTAAACGACGCGCCAGT 60

BASE COUNT

ORIGIN

Query Match 100.0%; Score 18; DB 9; Length 100;
Best Local Similarity 100.0%; Pred. No. 24;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TGTAAACGACGCGCCAGT 18
|||||
Db 77 TGTAAACGACGCGCCAGT 60

RESULT

10

LOCUS
DEFINITION
AA098627
SMTBADAMS0626SK S. mansoni cDNA Schistosoma mansoni cDNA clone
SMTBADAMS0626SK 5' similar to Calothrix D253 genomic clone, mRNA sequence.

AA098627
VERSION
AA098627.1 GI:1644597
EST:
KEYWORDS
SOURCE
ORGANISM

REFERENCE
AUTHORS

TITLE
JOURNAL
COMMENT

FEATURES
source

AA098627
AA098627.1 GI:1644597
EST:
Schistosoma mansoni.
Schistosoma mansoni
Eukaryota; Metazoa; Platyhelminthes; Trematoda; Digenea;
Strigeidida; Schistosomatidae; Schistosomatidae; Schistosoma.
1 (bases 1 to 100)
Saber,M.A., Hamied,H., Elyassaki,W.M., Romeih,M., Ahmed,H., Mohareb
,M., Eldabaa,I. and Mamdouh,S.
Schistosoma mansoni CDNAs
Unpublished (1995)
Contact: M.A. Saber, H. Hamied, W.M. El Yassaki, M. Romeih, H.
Ahmed, M. Mohareb, I. El Dabaa, S. Mamdouh
TBRI Biochemistry
Theodor Bilharz Research Institute
Imbaba, P.O.Box 12411, Giza, Egypt
Tel: 202 3128276
Fax: 202 3121167
Email: M-Saber@RCU.EUN.EG
Seq primer: sk.
Location/Qualifiers
1..100
/organism="Schistosoma mansoni"
/strain="Egyptian"
/db_xref="taxon:6183"
/clone="SMTBADAMS0626SK"
/clone_lib="S. mansoni cDNA"
/lab_host="E. coli XL Blue"
/note="Vector: pBluescript II SK+; Site_1: EcoRI; Site_2:
XhoI; MRNA was purified from adult couples of S. mansoni.
cDNA was constructed and cloned simultaneously using
vector priming with the pBluescript II SK+ vector. cDNA
was directionally synthesized from the EcoRI site in the
vector to the XhoI site."
21 a 28 c 27 g 24 t

BASE COUNT
ORIGIN
Query Match
Best Local Similarity 100.0%; Score 18; DB 9; Length 100;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TGTAAACGACGGCCAGT 18
|||||
Db 77 TGTAAACGACGGCCAGT 60

RESULT 11
AW113079/c

LOCUS
DEFINITION

ACCESSION
VERSION

KEYWORDS
SOURCE

ORGANISM

REFERENCE
AUTHORS

TITLE
JOURNAL

COMMENT

AW113079
MC7322 mouse liver, vehicle control Mus musculus linear EST 31-JAN-2000
3' similar to U4354 Expression vector pBMRZ, complete cds, mRNA
sequence.
AW113079
AW113079.1 GI:6825792
EST.
house mouse.
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
1 (bases 1 to 100)
Thomas,R.S., Rank,D.R., Penn,S.G., Zastrow,G.M., Jovanovich,S. and
Bradfield,C.A.
McArdle Laboratory/Molecular Dynamics Dioxin EST Project
Unpublished (1999)
Contact: Bradfield CA
McArdle Laboratory for Cancer Research
University of Wisconsin
1400 University Ave., Madison, WI 53706, USA
Tel: 608 262 2024
Fax: 608 262 2824
Email: bradfield@oncology.wisc.edu

This clone was sequenced as part of a project to develop a database
on gene expression changes following exposure to various
environmental toxicants. The database can be accessed at
<http://mcardsle.oncology.wisc.edu/bradfield/>. Treatment- dioxane
vehicle (400 ul/kg). Animals sacrificed- 48 hrs post-injection.
Seq primer: dt(23)V (anchored polyT).

FEATURES
source

Location/Qualifiers
1..100
/organism="Mus musculus"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="MC7322"
/clone_lib="mouse liver, vehicle control"
/sex="male"
/lab_host="JMI09"
/note="Organ: liver; Vector: pGEM11zf (Promega); Site_1:
NotI; Site_2: EcoRI; First strand cDNA was primed with a
NotI-polyT primer
15'-AACTGGAGAAATTCGGCCGCGAGGAATTTTTTTTTTT-3'.
Double-stranded cDNA was ligated with EcoRI adapters
(Pharmacia), digested with NotI, and ligated into the
EcoRI/NotI sites of the pGEM11zf vector. The library was
NOT normalized."
24 a 27 c 21 g 27 t 1 others

BASE COUNT
ORIGIN

Query Match
Best Local Similarity 100.0%; Score 18; DB 9; Length 100;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TGTAAACGACGGCCAGT 18
|||||
Db 49 TGTAAACGACGGCCAGT 32

RESULT 12
AW754394

LOCUS
DEFINITION

ACCESSION
VERSION

KEYWORDS
SOURCE

ORGANISM

REFERENCE
AUTHORS

TITLE

JOURNAL
MEDLINE

COMMENT

AW754394
CM0-CT0345-021299-114-f11 CT0345 Homo sapiens CDNA, mRNA sequence.
AW754394
AW754394.1 GI:7669326
EST.
human.
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 100)
Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R.,
Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.,
Goldman,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H.,
Brunstein,A., deOliveira,P.S., Bucher,P., Jongeneel,C.V., O'Hare
,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and
Simpson,A.J.
Shotgun sequencing of the human transcriptome with ORF expressed
sequence tags
Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
20202663
Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP,
Brazil
Tel: +55-11-2704922
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL
(<http://www.ludwig.org.br/scripts/gethtml2.pl?tl=CM0&t2=CM0-CT0345-021299-114-f11&t3=1999-12-02&t4=1>)
Seq primer: puc 18 forward
High quality sequence stop: 100.
Location/Qualifiers

source

1. .l00
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_lib="C70345"
/dev_stage="Adult"
/note="Organ: colon; Vector: puc18; Site_1: SmaI; Site_2: SmaI; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."
BASE COUNT 35 a 24 c 29 g 12 t
ORIGIN

Query Match 100.0%; Score 18; DB 9; Length 100;
Best Local Similarity 100.0%; Pred. No. 24;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TGTAAACGACGGCCAGT 18
Db 33 TGTAAACGACGGCCAGT 50

RESULT 13
AW812014/c
LOCUS
DEFINITION RC6-ST0170-291099-012-B02_1 ST0170 Homo sapiens CDNA, mRNA
ACCESSION AW812014
VERSION AW812014.1 GI:7905008
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens

REFERENCE
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 100)
Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R., Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F., Goldman,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H., Brunstein,A., deOliveira,P.S., Bucher,P., Jongeneel,C.V., O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and Simpson,A.J.J.
Shotgun sequencing of the human transcriptome with ORF expressed sequence tags

TITLE Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
JOURNAL 20202663
MEDLINE
COMMENT Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil
Tel: +55-11-2704922
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=et2-RC6-ST0170-291099-012-B02_1&t3=1999-10-29&t4=1)
Seq primer: puc 18 forward
High quality sequence stop: 100.

FEATURES
source
1. .l00
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_lib="ST0170"
/dev_stage="Adult"
/note="Organ: stomach; Vector: puc18; Site_1: SmaI; Site_2: SmaI; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."
BASE COUNT 12 a 29 c 23 g 36 t
ORIGIN

Query Match 100.0%; Score 18; DB 9; Length 100;
Best Local Similarity 100.0%; Pred. No. 24;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

tissue mRNA and cDNA amplification were performed under low stringency conditions."
BASE COUNT 11 a 29 c 24 g 36 t
ORIGIN

Query Match 100.0%; Score 18; DB 9; Length 100;
Best Local Similarity 100.0%; Pred. No. 24;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 TGTAAACGACGGCCAGT 18
Db 85 TGTAAACGACGGCCAGT 68

RESULT 14
AW812016/c
LOCUS
DEFINITION RC6-ST0170-291099-012-D01_1 ST0170 Homo sapiens CDNA, mRNA
ACCESSION AW812016
VERSION AW812016.1 GI:7905010
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens

REFERENCE
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 100)
Dias Neto,E., Garcia Correa,R., Verjovski-Almeida,S., Briones,M.R., Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F., Goldman,G.H., Carvalho,A.F., Matsukuma,A., Baia,G.S., Simpson,D.H., Brunstein,A., deOliveira,P.S., Bucher,P., Jongeneel,C.V., O'Hare,M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and Simpson,A.J.J.
Shotgun sequencing of the human transcriptome with ORF expressed sequence tags

TITLE Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
JOURNAL 20202663
MEDLINE
COMMENT Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil
Tel: +55-11-2704922
Fax: +55-11-2707001
Email: asimpson@ludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=et2-RC6-ST0170-291099-012-D01_1&t3=1999-10-29&t4=1)
Seq primer: puc 18 forward
High quality sequence stop: 86.

FEATURES
source
1. .l00
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone_lib="ST0170"
/dev_stage="Adult"
/note="Organ: stomach; Vector: puc18; Site_1: SmaI; Site_2: SmaI; A mini-library was made by cloning products derived from ORESTES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."
BASE COUNT 12 a 29 c 23 g 36 t
ORIGIN

Query Match 100.0%; Score 18; DB 9; Length 100;
Best Local Similarity 100.0%; Pred. No. 24;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

